09/590592

ABSTRACT OF THE DISCLOSURE

Molecules comprising aminooxy groups are provided, wherein the aminooxy groups provide attachment sites for the covalent attachment of other molecules. In one embodiment, polyoxyethylene molecules comprising aminooxy groups are provided that can be conjugated to wide variety of biologically active molecules including poly(amino acids). In another embodiment, valency platform molecules comprising aminooxy groups are provided. The aminooxy groups can be used to form covalent bonds with biological molecules such as poly(amino acids). The aminooxy groups can, for example, react with poly(amino acids) modified to contain carbonyl groups, such as glyoxyl groups, to form a conjugate of the valency platform molecule and the biologically active molecule via an oxime bond. The valency platform molecules comprising aminooxy groups are advantageously reactive in the formation of conjugates, and they also can be readily synthesized to form a composition with very low polydispersity.

09590592 . 060800